

RUBIDIUM 37 - www.lauriamusic.com - Elemental Music Series #1

The Atomic number is the number of positive charges or protons in the nucleus of an atom of a given element, and therefore also the number of electrons normally surrounding the nucleus. In an uncharged atom, the atomic number is also equal to the number of electrons.

Atoms with the same atomic number but different neutron numbers, and hence different atomic masses, are known as isotopes.

Each element has a specific set of chemical properties as a consequence of the number of electrons present in the neutral atom. The configuration of these electrons follows from the principles of quantum mechanics. The number of electrons in each element's electron shells, particularly the outermost valence shell, is the primary factor in determining its chemical bonding behavior. Hence, it is the atomic number alone that determines the chemical properties of an element; and it is for this reason that an element can be defined as consisting of any mixture of atoms with a given atomic number.

- 1 Rubidium is a soft, silvery-white **metallic** element of the **alkali metal** group - the most electropositive of them all. It looks like mercury.
- 2 It is a incompatible element.
- 3 23rd most abundant element unearths crust - as much as zinc, more common than copper
- 4 One of rubidium's isotopes is radioactive with a half life of 49 billion years - more than 3X longer than the estimated age of the universe
- 5 Explodes when it contacts water igniting the hydrogen gas it produces. So it is kept in a vacuum
- 6 Used in fireworks to get a purple color - the color of the smoke was its identifying feature when discovered.
- 7 Its resonant qualities makes it useful in cell site transmitters and other electronic transmitting, networking and test equipment - especially enhancing the accuracy of GPS equipment.
- 8 Used as a tracer for brain tissue anomalies. Shown to be deficient in patients suffering from depression.

HUMAN - volatile, excitable, no showers or baths, recluse, easily blushes, warm personality, precise, good tracker, clown

